

CTEH® Project #40442 West Fertilizer Plant Explosion Summary of Air Monitoring Results April 24, 2013 07:00

This data report discusses real-time air monitoring data collected between 4/23/2013 16:00 and 4/24/2013 04:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for VOCs, ammonia (NH₃), nitrogen dioxide (NO₂), Percent of the lower explosive limit (LEL) and oxygen (O₂) using remote-telemetering RAESystems[®] AreaRAEs.

Table 1 (Below) displays results for AreaRAE monitoring stations for this reporting period. Site maps and charts are available as attachments.



Table 1
Stationary AreaRAE Monitoring Stations Data Logged
4/23/2013 16:00 to 4/24/2013 04:00

7/20/2010 10:00 to 7/27/2010 07:00					
Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection
AR13	LEL	2815	0	NA	< 1 %
	NH3	2815	0	NA	< 1 ppm
	NO2	2815	0	NA	< 0.1 ppm
	02	2815	2815	20.9 %	20.9 %
	VOC	2815	0	NA	< 0.1 ppm
AR14	LEL	2878	0	NA	< 1 %
	NH3	2878	0	NA	< 1 ppm
	NO2	2878	0	NA	< 0.1 ppm
	O2	2878	2878	20.8 %	20.9 %
	VOC	2878	0	NA	< 0.1 ppm
AR16 Mobile Down Wind Unit	LEL	2820	0	NA	< 1 %
	NH3	2820	0	NA	< 1 ppm
	NO2	2820	0	NA	< 0.1 ppm
	O2	2820	2820	20.9%	20.9 %
	VOC	2820	0	NA	< 0.1 ppm
AR17	LEL	2785	0	NA	< 1 %
	NH3	2785	0	NA	< 1 ppm
	NO2	2785	0	NA	< 0.1 ppm
	O2	2785	2785	20.7 %	20.9 %
	VOC	2785	0	NA	< 0.1 ppm
AR18	LEL	2639	0	NA	< 1 %
	NH3	2639	0	NA	< 1 ppm
	NO2	2639	0	NA	< 0.1 ppm
	O2	2639	2639	20.4%	20.6 %
	VOC	2639	0	NA	< 0.1 ppm

¹ The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QAQC as of this time.



Appendix



Air Monitoring Zone Classifications¹ April 24, 2013

Project: 40442 Client: OMI City: West, TX County: McLennan





AreaRAE Monitoring Station Locations 4/23/2013 16:00 to 4/24/2013 04:00

Project: 40442 Client: OMI City: West, TX County: McLennan



